CLAIMS

What is claimed is:

1. A polyaxial impact wrench for applying torque to bolts and nuts comprising a working end configured to closely contact the periphery of the head of a bolt or a nut, an elongated shank rigidly extending from said working end, a sleeve mounted on said elongated shank for circumferential rotation about the longitudinal axis of said shank, said sleeve having a lock to fix said sleeve at different circumferential positions about said shank, said sleeve having connector means for connecting an impact tool at different angles to said longitudinal axis of said shank whereby torque is supplied to said working end at varying angles to said longitudinal axis and circumferentially of said shank.

2. A polyaxial impact wrench for applying torque to bolts and nuts comprising a working end configured to closely contact the periphery of the head of a bolt or a nut, an elongated shank rigidly extending from said working end, a sleeve mounted on said elongated shank for rotation about the longitudinal axis of said shank, said sleeve having a lock to fix said sleeve at different circumferential positions about said shank, a flange on said sleeve extending along said longitudinal axis, said flange having a plurality of connectors adapted to

. 1	removably attach to an impact tool whereby torque can be
2	applied universally to said working end through a vertical and
3	horizontal arc.
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5	3. A polyaxial impact wrench of claim 2 comprising the
6	free edge of said flange shaped in an arc, a power pin located
7	at the center of said arc, a plurality of detents located about
8	the edge of said arc, an arm pivotally connected to said power
9	pin, said arm having a pawl removably contacting one of said
10	plurality of detents fixing an angle between said arm and said
11	longitudinal axis, said arm adapted to connect to an impact
12	tool.
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14	4. A polyaxial impact wrench of claim 3 comprising said
15	detents are apertures through said flange and said pawl is a
16	pin connected to said arm.
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18	5. A polyaxial impact wrench of claim 2 comprising said
19	shank having shaped longitudinal surfaces, said sleeve having
20	cooperating longitudinal shapes providing said lock.
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1 6. A polyaxial impact wrench of claim 2 comprising an 2 enlarged shoulder on said shank to engage one end of said 3 sleeve, screw threads on said shank, a nut on said shank 4 engaging said screw threads and said sleeve, said shoulder and 5 said nut providing said lock when tightened.

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